DIN EN ISO 13297

ICS 47.080

Supersedes
DIN EN ISO 13297:2019-02,
DIN EN ISO 10133:2013-04 and
DIN EN ISO 10133/A100:2017-12

Small craft – Electrical systems – Alternating and direct current installations (ISO 13297:2020); English version EN ISO 13297:2021, English translation of DIN EN ISO 13297:2021-07

Kleine Wasserfahrzeuge –
Elektrische Systeme –
Wechselstrom- und Gleichstromanlagen (ISO 13297:2020);
Englische Fassung EN ISO 13297:2021,
Englische Übersetzung von DIN EN ISO 13297:2021-07

Petits navires –
Installations électriques –
Installations à courant alternatif et continu (ISO 13297:2020);
Version anglaise EN ISO 13297:2021,
Traduction anglaise de DIN EN ISO 13297:2021-07

Document comprises 44 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

07.21 3278113

A comma is used as the decimal marker.

National foreword

This document (EN ISO 13297:2021) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with CCMC.

The responsible German body involved in its preparation was *DIN-Normenstelle Schiffs- und Meerestechnik* (DIN Standards Committee Shipbuilding and Marine Technology), Working Group NA 132-08-01-10 AK "Electrical equipment" of Working Committee NA 132-08-01 AA "Small craft".

The information on the current capacity of insulated conductors in Table A.1 and the correction factors in Table A.2 were derived from the US Regulation NEC 310-16 "Allowable Ampacities of Insulated Conductors". This classifies certain temperature ranges for insulated conductors. For these temperature classes, the permissible maximum values for the current-carrying capacity are given as a function of the cross-sectional area of the conductor.

The term "temperature rating of conductor" has therefore been translated into German as *"Isolationstemperaturklasse"*.

The DIN documents corresponding to the documents referred to in this document are as follows:

IEC 60309-2:1999	DIN EN 60309-2:2000-05
IEC 60529:1989	DIN EN 60529:2000-09
IEC 61009-1:2010	DIN EN 61009-1:2013-08
IEC 61543:1995	DIN EN 61543:1996-07
ISO 7010:2019	DIN EN ISO 7010:2020-07
ISO 8846:1990	DIN EN 28846:1993-10
ISO 8666:2020	DIN EN ISO 8666:2021-04
ISO 10088:2013	DIN EN ISO 10088:2013-12
ISO 10239:2014	DIN EN ISO 10239:2015-05
ISO 10240:2019	DIN EN ISO 10240:2020-05

For current information on this document, please go to DIN's website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN ISO 13297:2019-02, DIN EN ISO 10133:2013-04 and DIN EN ISO 10133/A100:2017-12 as follows:

a) the requirements from DIN ISO 10133 for alternating current have been adopted in this document;

b) the standard has been editorially revised;

c) a new Annex E (informative) on the installation of overcurrent protection devices has been included;

d) a new Annex ZA (informative) on the relationship between this standard and Directive 2013/53/EU has been included.

Previous editions

DIN EN ISO 10133: 2002-04, 2013-04
DIN EN ISO 13297: 2001-04, 2013-01, 2015-04, 2019-02
DIN EN ISO 10133/A100: 2017-12

National Annex NA
(informative)

Bibliography

DIN EN 28846:1993-10, *Small craft — Electrical devices — Protection against ignition of surrounding flammable gases (ISO 8846)*

DIN EN 60309-2:2000-05, *Plugs, socket-outlets and couplers for industrial purposes — Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories (IEC 60309-2:1999)*

DIN EN 60529:2000-09, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999)*

DIN EN 61009-1:2013-08, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCBOs) — Part 1: General requirements (IEC 61009-1:2010, modified)*

DIN EN 61543:1996-07, *Residual current-operated protective devices (RCD's) for household and similar use — Electromagnetic compatibility (IEC 61543:1995)*

DIN EN ISO 7010:2020-07, *Graphical symbols — Safety colours and safety signs — Registered safety signs (ISO 7010:2019)*

DIN EN ISO 8666:2021-04, *Small craft — Principal data (ISO 8666:2020)*

DIN EN ISO 10088:2013-12, *Small craft — Permanently installed fuel systems and fixed fuel tanks (ISO 10088:2013)*

DIN EN ISO 10239:2015-05, *Small craft — Liquefied petroleum gas (LPG) systems (ISO 10239:2014)*

DIN EN ISO 10240:2020-05, *Small craft — Owner's manual (ISO 10240:2019)*

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 13297

April 2021

ICS 47.080

Supersedes EN ISO 10133:2017, EN ISO 13297:2018

English Version

Small craft — Electrical systems — Alternating and direct current installations (ISO 13297:2020)

Petits navires — Installations électriques — Installations à courant alternatif et continu (ISO 13297:2020)

Kleine Wasserfahrzeuge — Elektrische Systeme — Wechselstrom- und Gleichstromanlagen (ISO 13297:2020)

This European Standard was approved by CEN on 6 July 2020.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN ISO 13297:2021 E

Contents